

SECTION 4
INFRASTRUCTURE ELEMENT
GOALS, OBJECTIVES, and POLICIES

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POTABLE WATER

GOAL I1

Provide safe efficient, cost effective and adequate public supply, treatment, and distribution of potable water for the City of Deltona.

9J-5.011(2)(a)

OBJECTIVE I1-PW1

The City of Deltona shall require that the following policies which establish minimum level of service standards are met when planning capital improvements and reviewing applications for development approval.

9J-5.011(2)(b)(2,3)

Policy I1-PW1.1

The City of Deltona adopts a level of service standard providing for an annual average daily volume of 300 gallons of potable water per equivalent residential unit. Projected flow for commercial, industrial, and institutional land uses will be calculated utilizing Deltona Water equivalent residential unit factors for water consumption specified by Land Development regulations.

9J-5.011(2)(c)(2d)

Policy I1-PW1.2

The City of Deltona shall require the installation of a central potable water distribution system in accordance with City land development regulations.

9J-5.011(2)(c)(2d)

Policy I1-PW1.3

The City of Deltona shall require the construction of facilities for providing a minimum fire flow as a condition of development approval. Applicable fire flow rates for individual land uses shall be required as provided for by the City Codes.

9J-5.011(2)(c)(2d)

Policy I1-PW1.4

The City of Deltona shall require the developer to provide and dedicate to the City or service provider the potable water distribution system and treatment facilities within any new development as provided for in the City's land development regulations. The design criteria and construction standards for any addition to the water system shall be in conformance with City design and construction standards.

9J-5.011(2)(c)(2d)

Policy I1-PW1.5

Individual potable water wells are not encouraged but allowed under any one of the following applicable circumstances provided that the well has been approved by the City of Deltona or other agencies, as appropriate;

- a. The lot is one acre in size or larger and is designated as residential on the Future Land Use Map and the lot is within a single family subdivision, and connection to a central potable water system is not available within 500 feet of the residential boundary.
- b. The potable water well is installed in conjunction with the construction of a single family residence on an existing single family lot which is designated for residential land uses by the Future Land Use Map and which are less than one acre in size provided that;
 - i) That central service is currently not available to the lot. Connection to central water service is required when said service becomes available, and
 - ii) The lot is not located within a Special Assessment District which has been established for the purpose of installing a potable water distribution system.

or

- c. The potable water well is installed in conjunction with non-residential construction on an existing lot for landscape or agricultural irrigation purposes only until alternative reuse lines become available. When a central system becomes available, connection to said system is required.

9J-5.011(2)(c)(2d)

Policy I1-PW1.6

The City of Deltona shall require treatment of its water supply be at a minimum, in accordance with State and Federal standards of purity. 9J-5.011(2)(c)(2d)

Policy I1-PW1.7

The City of Deltona shall require that all new development which is located within an area encompassed by an adopted municipal water service area agreement shall comply with the adopted level of service standards. 9J-5.011(2)(c)(2d)

Policy I1-PW1.8

An existing potable water well may be upgraded, provided that a central potable water system is not available. However, connection to a central potable water system is required where said system is available in lieu of upgrading existing potable water well. 9J-5.011(2)(c)(2d)

Policy I1-PW1.9

The January 2010 City Water Supply Work Plan is hereby adopted by the City and is intended to be included as support documentation for the Deltona Comprehensive Plan.

Policy I1-PW1.10

The City shall use the January 2010 City Water Supply Work Plan to serve as support and guidance for the implementation of policies with regard to the provision of potable water and water conservation activities.

The City shall accomplish the following:

1. Continue to use ground water supplies consistent with community needs and CUP requirements
2. Continue to satisfy wholesale agreements
3. Continue to pursue the development of financially feasible alternative water sources, such as surface water, brackish ground water, including the Lower Floridan Aquifer, and sea water
4. Reduce the use of water within the City under conservation measures, including but not limited to, the further development of a reuse distribution system, the requirement of low flow plumbing, and other water conservation techniques.

Policy I1-PW1.11

The City shall continue to participate in the SR 46 surface water plant project as a possible alternative water source. In addition, the City shall consider participating in other financially feasible alternative water supply projects as such projects are proposed.

Policy I1-PW1.12

The City shall ensure that adequate water supplies and facilities are available and in place consistent with the level of service established in policy 1a prior to issuing a certificate of occupancy or its functional equivalent.

Policy I1-PW1.13

Within the Deltona North service area, the City shall issue no development orders without first consulting with the County to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the City of a certificate of occupancy or its functional equivalent.

OBJECTIVE I1-PW2

The City of Deltona shall provide for an adequate level of service standard for potable water service to meet the needs of current and future residents of the City of Deltona. *(Amended by Ordinance 32-2000 adopted by the Deltona City Commission at second reading March 19, 2001)* 9J-5.011(2)(b)(4)

Policy I1-PW2.1

The City of Deltona shall coordinate with the St. Johns River Water Management District, including the District water supply planning efforts to meet the projected water demand. 9J-5.011(2)(c)(3)

Policy I1-PW2.2

The City shall coordinate with the SJRWMD, and other governmental entities to share and update information.

Policy I1-PW2.3

The City shall coordinate and partner with the SJRWMD, and other governmental agencies to find and develop alternative water supply resources such as the SR 46 surface water plant project.

Policy I1-PW2.4

Prior to 2025, the City of Deltona shall develop facilities having the capability to access groundwater and financially feasible alternative water supplies of sufficient yield to provide the required potable water supply in the City water service areas. 9J-5.011(2)(c)(3)

Policy I1-PW2.5

The City of Deltona shall evaluate in conjunction other with potable water providers, additional potential water supply sources (surface water, brackish ground water, including the lower Floridan Aquifer, reclaimed water, stormwater, and sea water) and recovery technologies (e.g., reverse osmosis, membrane softening, desalinization) for the City water service areas. 9J-5.011(2)(c)(3)

Policy I1-PW2.6

By 2010, the City of Deltona shall adopt a water conservation ordinance. 9J-5.011(2)(c)(4)

Policy I1-PW2.7

Consistent with the January 2010 City Water Supply Work Plan, the City of Deltona shall maintain and expand water treatment capacity to produce and have available sufficient quantities of potable water to meet the projected long-range (2025) needs described in this Element. 9J-5.011(2)(c)(4)

Policy I1-PW2.8

The City of Deltona shall collect and use impact fees, connection fees, utility revenues, or other methods, as deemed appropriate to offset the cost of the capacity necessitated by the impact of new users and to develop alternative water supplies. 9J-5.011(2)(c)(4)

Policy I1-PW2.9

The City of Deltona shall maintain a potable water treatment and distribution facilities master plan for the City water service areas—in the City of Deltona that is based on year 2025 demand projections and the level of service standards contained in this Element. 9J-5.011(2)(c)(4)

Policy I1-PW2.10

The City of Deltona shall allow the installation of individual shallow wells on residential and commercial lots for landscape irrigation, subject to applicable regulations in effect. This policy shall not apply to those areas where reclaimed water service facilities are available or can become readily available by identifying the customer demand. 9J-5.011(2)(c)(4)

Policy I1-PW2.11

The City of Deltona shall continue to require the use of potable water-conserving plumbing fixtures in all new development. 9J-5.011(2)(c)(4)

Policy I1-PW2.12

To further conserve water consistent with the wastewater master plan, the City shall extend reuse lines to activate dry lines that have been installed consistent with City Land Development Regulations when reclaimed water becomes available.

Policy I1-PW2.13

The City of Deltona shall require the use of reclaimed water by private landowners for landscape irrigation, car washing, and other activities, as allowed by the FDEP and/or the SJRWMD where the City or other utility owners can supply it. 9J-5.011(2)(c)(4)

Policy I1-PW2.14

As allowed by FDEP and/or the SJRWMD, the City of Deltona shall provide facilities to allow the use of reclaimed water for agricultural purposes, where the City supplies it. 9J-5.011(2)(c)(4)

Policy I1-PW2.15

To encourage water conservation activities, the City shall continue to do the following:

- 1) Maintain an inclined rate structure;
- 2) require the installation of individual service collection meters;
- 3) assist in home leak inspections; and
- 4) maintain and check flow meters.

Policy I1-PW2.16

To further encourage water conservation the City shall:

- 1) By 2010 adopt a water conservation plan consistent with the SJRWMD water conservation plan;
- 2) by 2010 incorporate water wise landscaping requirements into the City land development regulations; and
- 3) require the use and maintenance of rain sensors.

Policy I1-PW2.17

The City shall continue to promote the use of low impact development techniques to protect native vegetation with the intent of minimizing the need for future irrigation.

Policy I1-PW2.18

The City shall continue to participate in applicable rebate programs for rain barrels, water efficient appliances, etc.

OBJECTIVE I1-PW3

Throughout the planning period the City of Deltona shall encourage the use of existing and future facilities, so as to discourage urban sprawl. 9J-5.011(2)(b)(3)

Policy I1-PW3.1

The extension of water lines or establishment of central systems of potable water outside of City urban land use categories shall be prohibited unless said extension or facility construction will mitigate existing or potential problems of public health, safety, or welfare and water service area. 9J-5.011(2)(c)(1)

Policy I1-PW3.2

The City shall be the sole provider of central water service in the City's Chapter 180, F.S. service area franchise.

Policy I1-PW3.3

The City of Deltona shall negotiate agreements with developers for the City to provide potable water facilities in accordance with the proposed Water Master Plan for the affected service area and the City's design and construction standards. 9J-5.011(2)(c)(1,2d)

Policy I1-PW3.4

The City of Deltona shall coordinate with the County and other water suppliers to develop strategies, as needed, to balance fluctuation in water demand, safeguard continuance of supply in case of plant or water main breakdown, and to provide required fire flows. 9J-5.011(2)(c)(1)

Policy I1-PW3.5

The "infilling" of developed areas shall be directed to locations where an existing central system of potable water is available and where capacity is adequate to service the intended development or to those areas where funds have been committed for the provision of adequate capacity. 9J-5.011(2)(c)(1)

Policy I1-PW3.6

The City may create Special Assessment Districts encompassing existing lots or subdivisions in the manner prescribed by City rules and regulations for the purposes of installing or improving central potable water systems. 9J-5.011(2)(c)(1)

Policy I1-PW3.7

When an existing privately owned package treatment facility is phased out and connected to a central public potable water system, the owner of said private plant shall be required to assume the cost of the connection. 9J-5.011(2)(c)(1)

OBJECTIVE I1-PW4

Throughout the planning period, the City of Deltona shall coordinate the provision of potable water service to ensure the efficient and cost effective delivery of this service.

Policy I1-PW4.1

The City should negotiate interlocal agreements with the County and other service providers for the purpose of establishing interconnections to accomplish the following:

- a. Improvement of system reliability in the event of diminished water supplies, line breaks, or excessively high localized, water demand conditions through interconnections, retrofits or other methods as deemed appropriate..
- b. Consider the option of purchasing water services dependent on appropriate funding in a proposed acquisition study.
- c. Coordinate recommendations of the St. Johns River Water Management District, and other local, regional and State agencies involved in determining water demand conditions.

Policy I1-PW4.2

The City of Deltona shall coordinate the utility and transportation planning efforts to take advantage of the most economical construction and maintenance costs possible when installing utility lines and roads.

SANITARY SEWER**GOAL I2**

Provide safe adequate cost effective and environmentally acceptable sanitary sewer systems for the City of Deltona.

OBJECTIVE I2-SS1

The City of Deltona shall require that the following policies which establish minimum level of service standards, are met when planning capital improvements and for reviewing applications for development approval. 9J-5.011(2)(b)(2)

Policy I2-SS1.1

The City of Deltona adopts a level of service standard providing for an annual average daily volume of 284 gallons of domestic wastewater per equivalent residential unit. Projected flow for commercial, industrial, and institutional land uses will be calculated utilizing Deltona Water equivalent residential unit factors for water and wastewater service as illustrated in City land development regulations. 9J-5.011(2)(c)(1)

Policy I2-SS1.2

The City of Deltona shall require "advanced secondary treatment" of wastewater (including high-level chlorination and sand filtration) at all wastewater treatment plants with capacities of 0.1 MGD or more within the City. 9J-5.011(2)(c)(1)

Policy I2-SS1.3

The City of Deltona shall require the installation of a central sewer collection and transmission system, and reclaimed water mains in accordance with City land development regulations where connection to an existing central sanitary sewer system or reclaimed system is not available.

9J-5.011(2)(c)(2)

Policy I2-SS1.4

The City of Deltona shall require the utilization of a central sewer system where connection to a central system is available. The use of existing septic tanks serving land uses within the sewer service areas may continue in the manner consistent with the requirements specified by the Florida Administrative Code. Existing package treatment plants shall be connected to a central sewer system when connection to said system is available. 9J-5.011(2)(c)(2)

Policy I2-SS1.5

New septic tanks are discouraged, but may only be allowed under any one of the following applicable circumstances provided that the septic tank has been approved by the Florida Department of Health and Rehabilitative Services;

- a. The lot is one acre or larger in size and is designated as residential on the Future Land Use Map, or
- b. The septic tank is installed in conjunction with the construction of a single family residence upon an existing platted single family lot, which is designated for residential use on the Future Land Use Map and the lot is less than one (1) acre in size provided that:
 - i) Central service is currently not available to the lot. Connection to central sewer service is required when said service becomes available, and
 - ii) The lot is not located within a Special Assessment District which has been established for the purpose of installing a wastewater system.

or

- c. The septic tank is installed in conjunction with non-residential construction on an existing lot, that central wastewater service is not currently available, and that the estimated wastewater flow from said non-residential use is less than five thousand (5,000) gallons per day. Connection to a central system of sanitary sewer service is required when said system is available.

9J-5.011(2)(c)(2)

Policy I2-SS1.6

The City of Deltona shall require all sewage treatment and disposal systems including septic tanks to be located and constructed in a manner consistent with all applicable local, State, and Federal regulations, including the applicable Goals, Objectives, Policies, and level of service standards contained in this Comprehensive Plan. 9J-5.011(2)(c)(2)

Policy I2-SS1.7

The City of Deltona shall regularly inspect all City-owned and private wastewater treatment facilities to ensure proper operation and maintenance. 9J-5.011(2)(c)(2)

Policy I2-SS1.8

The location and siting of new package treatment plants shall be prohibited by the City in areas where the disposal of improperly treated effluent may degrade the quality of groundwater or adjacent surface waters. In addition, package plants shall be connected to central sewer as it becomes available and after package plants are no longer used they shall be abandoned and removed from the site. 9J-5.011(2)(c)(2)

Policy I2-SS1.9

An existing septic tank system may be upgraded, provided that a central sanitary sewer system is not available. However, connection to a central sanitary sewer system is required, where said system is available in lieu of upgrading an existing septic tank system.
9J-5.011(2)(c)(2)

Policy I1-SS1.10

The City shall further expand its wastewater treatment capacity to support new development and redevelopment activities within the City.

Policy I1-SS1.11

The City shall investigate methods, including funding sources, to retrofit areas of the City that are currently served by septic systems. A priority for such retrofit activity, if deemed feasible, will be as follows:

- a. Correct threats to public health and safety;
- b. Improve the environmental conditions of surface and ground water resources; and
- c. Encourage sustainable redevelopment and compact urban development patterns.

OBJECTIVE I2-SS2

Throughout the planning period, the City of Deltona shall maximize the use of existing facilities within sewer service areas, so as to discourage urban sprawl.
9J-5.011(2)(b)(3)

Policy I2-SS2.1

The City of Deltona may coordinate and negotiate agreements with developers and service providers in accordance with the affected City sewer service area and the City's design and construction standards.
9J-5.011(2)(c)(1)

Policy I2-SS2.2

Development and redevelopment shall be directed to locations where an existing wastewater collection network is available and where treatment capacity is adequate to service the intended development or to those areas where funds have been committed for the provision of adequate capacity, unless otherwise vested under the City's Concurrency Management Ordinance or Land Development Regulations as may be determined by the City Commission.

9J-5.011(2)(c)(1)

Policy I2-SS2.3

The City may create Special Assessment Districts encompassing existing lots or subdivisions, in the manner prescribed by State and City rules and regulations, for the purposes of installing or improving central wastewater systems.

9J-5.011(2)(c)(1)

Policy I2-SS2.4

When an existing privately owned package treatment facility is phased out and connected to a central public wastewater system, the owner of said private plant may be required to assume the cost of the connection and the cost of abandonment and proper removal.

9J-5.011(2)(c)(1)

OBJECTIVE I2-SS3

The City of Deltona shall encourage the development of an effluent recharge, reuse and disposal program to recharge wetlands and groundwater supplies and provide irrigation water.

9J-5.011(2)(b)(5)

Policy I2-SS3.1

The City of Deltona shall require use of reclaimed water for irrigation and non-potable use for all new development and other appropriate uses, where such use can be feasibly implemented and permitted by the Florida Department of Environmental Protection as determined by the City.

9J-5.011(2)(c)(3)

Policy I2-SS3.2

The City of Deltona shall monitor enforcement of State regulations for water quality, especially with respect to wastewater plant operations and effluent disposal and, if necessary, develop an appropriate alternative management strategy, which may include reduction in wastewater effluent loadings and discharge rates. 9J-5.011(2)(c)(3)

Policy I2-SS3.3

The City of Deltona shall participate in long-term agreements with land owners to accept reclaimed water for irrigation of horticultural or agricultural uses. 9J-5.011(2)(c)(3)

Policy I2-SS3.4

Where development occurs, the City of Deltona shall require a dual water system utilizing reclaimed wastewater for parks, golf courses, cemeteries, large agricultural, commercial, or governmental complexes and other water customers. 9J-5.011(2)(c)(3)

Policy I2-SS3.5

The City shall continue to reuse 100% of normal weather wastewater generated at City water reclamation facilities.

Policy I2-SS3.6

The City shall improve reclaimed water reuse by expanding and improving reclaimed water infrastructure.

Policy I2-SS3.7

The City shall continue to meter individual reclaimed water connections.

OBJECTIVE I2-SS4

The City of Deltona shall coordinate with service providers to develop plans to extend wastewater facilities and to expand wastewater treatment capacity necessary to accommodate projected 2025 wastewater service needs. 9J-5.011(2)(b)(2)

Policy I2-SS4.1

The City of Deltona shall annually designate as appropriate and financially feasible a portion of its capital improvements budget for the correction of existing deficiencies in its wastewater disposal system as determined by the application of the standards contained in this Element.

9J-5.011(2)(c)(1,2&9)

Policy I2-SS4.2

The City of Deltona shall collect and use impact fees to offset the cost of capacity necessitated by the impact of new users. 9J-5.011(2)(c)(1,2&9)

Policy I2-SS4.3

The City of Deltona shall maintain and update a wastewater collection, treatment facilities, and reclaimed water reuse master plan for the sewer service areas in the City that is based on year 2025 effluent projections and the level of service standards contained in this Element. 9J-5.011(2)(c)(1,2&9)

Policy I2-SS4.4

The City of Deltona shall negotiate sewer service area agreements with Volusia County and other applicable governmental entities to better coordinate the orderly, efficient, and cost effective provision of wastewater service. 9J-5.011(2)(c)(1)

SOLID WASTE**GOAL I3**

The City of Deltona shall cooperate, coordinate and in a cost effective manner, strive for the reduction of landfill waste needs.

OBJECTIVE I3-SW1

The City of Deltona shall strive to assist the County's goal of reducing the waste stream for disposal in area landfills. 9J-5.011(2)(b)(1,2)

Policy I3-SW1.1

The City of Deltona shall participate in the education of the public to avoid products which: are not recyclable, cannot be converted, or cannot be used as a resource or derived fuel.

9J-5.011(2)(c)(1,2b)

Policy I3-SW1.2

All solid waste facilities (landfills, transfer stations, hazardous waste collection centers) shall be conveniently and cost effectively located and built and maintained in such a manner as to minimize the adverse impacts on the environment, residential neighborhoods and road networks. The City shall coordinate with the provider on the location of future solid waste facilities.

Policy I3-SW1.3

The City of Deltona shall maintain programs designed to eliminate littering and illegal dumping.

9J-5.011(2)(b)(1, 2b)

Policy I3-SW1.4

Educate the public regarding the problems, health hazards and additional costs that result from littering and illegal dumping. The City laws regarding solid waste should also be widely publicized. Citizen groups will be encouraged to report violations to the City. 9J-5.011(2)(c)(1)

Policy I3-SW1.5

Coordinate with the appropriate enforcement agencies for the effective enforcement of anti-littering and illegal dumping laws. 9J-5.011(2)(c)(1)

OBJECTIVE I3-SW2

Locate and maintain solid waste facilities in a manner, which does not adversely affect residential neighborhoods or local streets. 9J-5.011(2)(b)(2)

Policy I3-SW2.1

Landfills and resource recovery facilities shall not be located in residential neighborhoods.

9J-5.011(2)(c)(1,2b)

Policy I3-SW2.2

Avoid transfer truck traffic and reduce local haul (any refuse transported within the City of Deltona) on residential neighborhood streets. 9J-5.011(2)(c)(1,2b)

Policy I3-SW2.3

The City of Deltona shall continue to locate future solid waste transfer stations so as to provide for efficient and cost-effective management of waste flows, while minimizing the adverse impacts on the environment and residential neighborhoods. Consideration of this policy includes, at a minimum, that:

1. Reduction in adverse impacts of local haul and transfer truck traffic on residential neighborhood streets.
2. Encourage increased cost efficiency in the operation of the solid waste flow stream.

9J-5.011(2)(c)(1,2b)

OBJECTIVE I3-SW3

Ensure that the availability and quality of solid waste disposal facilities and hazardous waste collection facilities: meet public needs, conform to state and federal standards, are managed properly, and are provided for in an efficient and coordinated manner.

Policy I3-SW3.1

Maintain an 8.6 pounds per capita per day disposal capacity at all solid waste facilities combined. The level of service for solid waste capacity shall be a minimum of 5 years of construction life for solid waste landfills. Any development that results in the landfill falling below this capacity will not be issued a certificate of capacity for concurrency unless the impacts of the developments are mitigated. 9J-5.011(2)(b)(1)

Policy I3-SW3.2

The City shall maintain the permit tracking system. This system shall provide, on a timely basis, information on development and building activity. This information will be used to determine whether an area wide level of service is being maintained for the purposes of Solid Waste Concurrency Management. 9J-5.011(2)(c)(1)

Policy I3-SW3.3

In order to reduce the volume of improperly disposed hazardous waste disposal, the Building Division shall provide each industrial park and industrial subdivision the following information: Federal, State and local regulations for the storage and disposal of hazardous waste and waste exchange, and management/disposal options. 9J-5.011(2)(c)(1)

Policy I3-SW3.4

Guidelines shall be established through the Land Development Regulation process to regulate the location of private hazardous waste transport facilities. 9J-5.011(2)(c)(1)

STORMWATER

GOAL I4

To protect the health and safety of the public by ensuring stormwater management facilities and services are properly maintained, environmentally sound, cost effective, and meet the community's present and future demands.

OBJECTIVE I4-STW1

The City shall continue to implement the watershed study and assess other watersheds for flooding and pollution problems and for changes in land use in the event that further detailed Watershed Master Plans may be warranted in the future. 9J-5.011(2)(b)(5)

Policy I4-STW1.1

The City of Deltona shall continue to implement the comprehensive surface and groundwater watershed management plan. 9J-5.011(2)(c)(4,5)

Policy I4-STW1.2

Additionally, the City shall, in implementation of the plan:

- (a) Consult with and obtain permits as may be necessary from proper regulatory authorities before initiating alteration for wetlands; and
- (b) Recognize landowners' statutory and common-law vested private property rights, including riparian rights.

Policy I4-STW1.3

All land use and development approval decisions which impact water resources in Deltona shall conform to the comprehensive surface and groundwater watershed management plan, when approved by the City Commission.

Level of Service for Storm Water Quantity and Quality:

- a. **Closed Basing LOS:** The City will establish a Level of Service design standard in closed drainage basins as follows: All development shall meet the minimum volume of retention equivalent to one-half inch of depth over the entire project area and the discharge hydrograph produced for the developed or redeveloped site shall not exceed, in terms of peak flow and total volume, the hydrograph produced by conditions existing before development or redevelopment for a 24 hour, 100 year frequency storm.
- b. **Basins with Outfall LOS:** The City will establish a Level of Service design standard in non-closed basins as follows: All development shall meet the minimum volume of retention equivalent to on-half inch of depth over the entire project area and the discharge hydrograph produced for the developed or redeveloped site shall not exceed, in terms of peak flow and total volume, the hydrograph produced by conditions existing before development or redevelopment for a 24 hour, 25 year frequency storm.

Policy I4-STW1.4

The City of Deltona shall use the watershed studies to determine level of service, capacity analysis, demand level and geographic service area for stormwater management areas and shall include mosquito control facilities which function as stormwater facilities.

9J-5.011(2)(c)(1,2c&5)

Policy I4-STW1.5

All new development and redevelopment projects shall meet or exceed these minimum State water quality standards; Chapter 62-40 Florida Administrative Code (FAC), Chapter 62-302 FAC, Chapter 40C-42 FAC. All new development or redevelopment projects shall also meet or exceed minimum environmental protection standards of Volusia County and this Comprehensive Plan. Stormwater discharges from all new development and redevelopment projects shall also meet or exceed State water quality standards for Class III Waters as stated in Chapter 62-302 FAC.

OBJECTIVE I4-STW2

The City of Deltona shall at a minimum maintain current standards regulating the design, construction, and management of drainage systems used for stormwater management.

9J-5.011(2)(b)(5)

Policy I4-STW2.1

The City of Deltona shall identify and prioritize drainage systems in need of retrofitting and upgrade of these systems, as funding becomes available. Watershed studies will be used to identify and prioritize systems in need of retrofitting. The City of Deltona may apply for any grants and loans available from the DEP Revolving Loan Fund. 9J-5.011(2)(c)(1,4,5)

Policy I4-STW2.2

The City of Deltona shall develop an inspection and enforcement program to ensure proper maintenance of stormwater management systems. 9J-5.011(2)(c)(1)

Policy I4-STW2.3

Best Management Practices (BMPs) for control of erosion and sedimentation shall be employed for all construction and agricultural activities in order to protect natural water bodies, watercourses and wetland from off-site pollutants.

9J-5.011(2)(c)(4,5)

Policy I4-STW2.4

The City of Deltona shall complete a study to examine innovative stormwater BMP's (such as turf block, porous concrete "Rigby" cleaning machine, as a way to improve its stormwater management program.

9J-5.011(2)(c)(4,5)

NATURAL GROUNDWATER AND AQUIFER RECHARGE

GOAL I5

Protect the quality and quantity of the surficial and Floridan Aquifers, including the Volusia-Floridan sole source aquifer, and protect and enhance the capabilities of the groundwater recharge areas for the present and future water supply of the City. 9J-5.011(2)(b)(4,5)

OBJECTIVE I5-NGW1

Consistent with the January 2010 City Water Supply Work Plan, potable water resources shall be identified, protected and conserved. 9J-5.011(2)(b)(4)

Policy I5-NGW1.1

The City of Deltona shall coordinate with the St. Johns River Water Management District and continue to monitor and evaluate groundwater resources. 9J-5.011(2)(c)(4,5)

Policy I5-NGW1.2

The City of Deltona shall determine water supply levels, including alternative sources of water, consistent with the January 2010 City Water Supply Work Plan. 9J-5.011(2)(c)(1,4)

Policy I5-NGW1.3

The City of Deltona shall promote the efficient use of groundwater supplies as outlined in the January 2010 City Water Supply Work Plan and Potable Water Element of this Comprehensive Plan. 9J-5.011(2)(c)(3)

Policy I5-NGW1.4

The City of Deltona shall require the use of water conserving plumbing fixtures in all new development, subject to City regulations in effect. 9J-5.011(2)(c)(3)

Policy I5-NGW1.5

Prime (or high) aquifer recharge areas appropriate for development shall be developed so as to continue to maintain pre-development net retention, exempting agricultural activities utilizing those Best Management Practices adopted by U.S. Natural Resources Conservation Service and Florida Department of Environmental Protection, which in fact protect ground and surface water quality. 9J-5.011(2)(c)(4)

Policy I5-NGW1.6

The City of Deltona shall consider purchase or secure environmental easements on recharge lands where feasible for the purpose of water detention and recharge. 9J-5.011(2)(c)(4,5)

Policy I5-NGW1.7

The City of Deltona shall continue a comprehensive program responsible for educating businesses and residents of: the City's current water conservation policies, the fragility of the aquifer, methods to reuse and conserve water, well abandonment problems and rules, and benefits of drought resistant plants. 9J-5.011(2)(c)(3)

OBJECTIVE I5-NGW2

The City of Deltona shall continue to appropriately protect and manage the Floridan and surficial Aquifers' water quality and quantity. 9J-5.011(2)(b)(5)

Policy I5-NGW2.1

The City of Deltona shall adopt additional policies, within its jurisdiction, using applicable information, including the January 2010 City Water Supply Work Plan to protect the aquifer. These shall include policies that address:

- 1 .public well field siting
2. siting of industrial land uses which use hazardous materials or generate hazardous waste
3. siting of additional hazardous waste collection facilities for households and conditionally exempt small quantity generators of hazardous waste
4. if necessary, expansion of the Hazardous Material Emergency Response Team
5. if necessary, additional protection of the aquifer from saltwater intrusion

6. if necessary, restrictions to agricultural activities regarding the use of pesticides or fertilizers.
7. identification and development of alternative sources of water; and
8. further development of wastewater reuse.

9J-5.011(2)(c)(5)

Policy I5-NGW2.2

The City of Deltona shall continue to enforce the local and State regulations pertaining to the protection of the surficial and Floridan Aquifers from such contaminants as hazardous and biological wastes, and petroleum products including, but not limited to: fuel oils, transportation fuels, machinery fluids, and their wastes. 9J-5.011(2)(c)(4,5)

Policy I5-NGW2.3

The City of Deltona shall maintain a wellhead/well-field protection ordinance for which shall, at minimum, do the following:

1. determine the zone of influence and/or area for protection for each public well field,
2. determine restrictions for the handling and storage of hazardous substances in order to protect potable water supplies,
3. permit regional well fields to serve a multi-purpose function, such as conservation and passive public recreational facilities.

9J-5.011(2)(c)(3,4&5)

Policy I5-NGW2.4

The City should utilize water quality standards included in the “Stormwater and Watershed Management Master Plan,” as a benchmark for water quality, to determine if degradation, maintenance or improvement has occurred.